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NOTICE OF ALLOWANCE AND FEE(S) DUE

28960 7590 10/14/2008 HAVERSTOCK & OWENS LLP 162 N WOLFE ROAD

SUNNYVALE, CA 94086

EXAMINER

HO, CHUONG T

ART UNIT PAPER NUMBER

2419

DATE MAILED: 10/14/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,008	05/11/2006	Xiaobao Chen	DYC-00500	6188

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEES) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 01/14/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

TITLE OF INVENTION: TELECOMMUNICATIONS APPARATUS AND METHOD

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless corrects maintenance fee notifica	correspondence including the delow or directed off	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of r a) specifying a new corre	naintenance fees wi spondence address;	Il be mailed to the and/or (b) indicatin	current co	orrespondence address as nte "FEE ADDRESS" for
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							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKE	T NO.	CONFIRMATION NO.
10/550,008	05/11/2006		Xiaobao Chen	DYC-00500			6188
TITLE OF INVENTION	: TELECOMMUNICAT	TONS APPARATUS AN	D METHOD				
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE TOTAL FEE	(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$181	.0	01/14/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
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Change of corresponder CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on the p				
	ondence address (or Cha B/122) attached.	inge of Correspondence	(I) the names of up to or agents OR, alternati	3 registered patent rely,	attorneys 1		
			(2) the name of a single registered attorney or a	e firm (having as a	member a 2		
PTO/SB/47; Rev 03-0 Number is required.	ication (or "Fee Address)2 or more recent) attach	ned. Use of a Customer	2 registered patent atto listed, no name will be	rnevs or agents. If n	o name is 3		
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or ty	ne)			
PLEASE NOTE: Uni	less an assignee is ident	ified below, no assignee	data will appear on the p T a substitute for filing an	atent. If an assigne	e is identified below	w, the doc	ument has been filed for
(A) NAME OF ASSI		pietion of this form is NO	(B) RESIDENCE: (CITY				
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Please check the appropr	iate assignee category or	categories (will not be pr	inted on the patent):	Individual 🖵 Cor	poration or other pr	ivate grou	p entity 🗖 Government
4a. The following fee(s)	are submitted:	48	o. Payment of Fee(s): (Plea	se first reapply any	previously paid is	sue fee sh	own above)
Issue Fee			A check is enclosed.				
Advance Order	vo small entity discount p	permitted)	☐ Payment by credit car ☐ The Director is hereby	d. Form PTO-2038 authorized to chars	is attached. e the required fee(s), anv defi	ciency, or credit any
			The Director is hereby overpayment, to Depo	sit Account Number	(e	nclose an	extra copy of this form).
5. Change in Entity Sta	tus (from status indicate is SMALL ENTITY stati		☐ b. Applicant is no lon	oor claiming SMAI	FNTITV etatue S	or 37 CEI	2 1 27(a)(2)
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interest as shown by the	records of the United Sta	ites Patent and Trademark	Office.				
Authorized Signature				Date			
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HAVERSTOCK & OWENS LLP			HO, CHUONG T		
162 N WOLFE ROAD				ART UNIT	PAPER NUMBER
SUNNYVALE, CA 94086			2419		
DATE MAILED: 10/14/2008				8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 461 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 461 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/550 008 CHEN ET AL. Notice of Allowability Examiner Art Unit CHUONG T HO 2419 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 09/14/05. The allowed claim(s) is/are 1-21,24-25,28-68 renumbered 1-64. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Paper No./Mail Date See Continuation Sheet

of Biological Material

4. Examiner's Comment Regarding Requirement for Deposit

9. ☐ Other .

8. X Examiner's Statement of Reasons for Allowance

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 07/28/08,01/28/08,12/12/05,09/14/05,03/16/07,12/27/06.

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DETAILED ACTION

Information Disclosure Statement

 The information disclosure statement (IDS) submitted on 01/28/08, 07/28/08, 03/16/07, 09/14/05, 12/12/05, 12/27/06 was filed. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Allowable Subject Matter

- 2. Claims 1-7, 28-40, 8-13, 24-25, 41-46, 59-68, 14-21, 47-58 are allowed.
- 3. The following is a statement of reasons for the indication of allowable subject matter: Claim 1 is allowed. Krishmarajah et al. (Pub. No. 2003/0081592 A1) discloses a gateway support node (figure 7, GGSN) operable to provide an interface for communicating the data packets (figure 7, Internet) between the mobile communications_user equipment (User Equipment) and the a_packet data telecommunications network, (figure 7, internet)

a service support node (figure 7, SGSN) operable to communicate the data packets between the gateway support node (GGSN) and the mobile communications user equipment using a radio network controller (Radio Access network (RAN)), the radio network controller being operable to provide a radio access bearer for communicating the data packets with the mobile communications_user equipment (figure 7, User equipment "UE").

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wherein at least one of the gateway support node and the mobile_communications user equipment are operable to parse the payload data in each data packet to determine a number of the plurality of different data types (figure 12);

to form a transport frame (figure 12, AMR frame) for each data packet by combining the payload data for each data packet with the sub-flow indicator ([0054] subflow), the transport flame being used to communicate each data packet between the gateway (figure 7, GGSN) support node and the radio network controller (figure 7, RCN 104) via the service support node(figure 7, SSGN), and the data packets are communicated between the radio network controller (figure 7, RCN 104).

Lee (Pub. No.: US 2003/0021256 A1) discloses a gateway support node (figure 1, GGSN) operable to provide an interface for communicating the data packets (figure 1, Internet) between the mobile communications_user equipment (User Equipment) and the a packet data telecommunications network, (figure 1, internet) a service support node (figure 1, SGSN) operable to communicate the data packets

between the gateway support node (GGSN) and the mobile communications user equipment using a radio network controller (Radio Access network (RAN)), the radio network controller being operable to provide a radio access bearer for communicating the data packets with the mobile communications_user equipment (figure 7, User equipment "UE" 100)

The prior art however fails to disclose wherein at least one of the gateway support node and the mobile communications user equipment are operable to parse the payload data

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in each data packet to determine a number of data symbols in each of the different data types, to generate a radio access bearer sub-flow indicator providing an indication of the number of different types of data in the payload and the number of symbols in each different data type, and the mobile_communications user equipment by detecting the sub-flow indicator, and in accordance with the sub-flow indicator arranging for the data from each of the different data fields to be communicated via a different radio access bearer providing different quality of service parameters appropriate for the different data type

Claim 8 is allowed. . Krishmarajah et al. '592' discloses providing an interface for communicating the data packets between the mobile communications_user equipment (figure 7, User Equipment (UE) 102) and a packet data telecommunications network (figure 7, Internet), communicating the data packets between the interface and the mobile communications user equipment (figure 7, UE 102) using a radio network controller (figure 7, Radio Access Network (RAN) 104), the radio network controller (Figure 7, Radio Access Network (RAN) 104) being operable to provide radio access bearers for communicating the data packets to and/or from the mobile communications user equipment (figure 7, UE 102), wherein the communicating the data packets between the interface and the mobile communications_user equipment comprises parsing the payload data in each data packet to determine a number of the plurality of different types of data (figure 12),

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forming a transport frame for each data packet by combining the payload data for each data packet with the sub-flow indicator ([0054] subflows), the transport frame being used to communicate each data packet between the interface and the radio network controller (figure 7, RCN 104).

Lee (Pub. No.: US 2003/0021256 A1) discloses a gateway support node (figure 1, GGSN) operable to provide an interface for communicating the data packets (figure 1, Internet) between the mobile communications_user equipment (User Equipment) and the a packet data telecommunications network, (figure 1, internet) a service support node (figure 1, SGSN) operable to communicate the data packets between the gateway support node (GGSN) and the mobile communications user equipment using a radio network controller (Radio Access network (RAN)), the radio network controller being operable to provide a radio access bearer for communicating the data packets with the mobile communications_user equipment (figure 7, User equipment "UE" 100)

The prior art however fails to disclose <u>parsing the payload data in each data packet to determine a number of data symbols in each of the different data types</u>, generating a radio access bearer sub-flow indicator providing an indication of the number of different types of data in the payload and the number of symbols in each different data type; generating a radio access bearer sub-flow indicator providing an indication of the number of different types of data in the payload and the number of symbols in each different data type; and communicating the data packets between the mobile

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communications_user equipment and the radio network controller by detecting the sub-flow indicator, and in accordance with the sub-flow indicator arranging for the data from each of the different data fields to be communicated via a different radio access bearer providing different quality of service parameters appropriate for the different data type.

Claim 14 is allowed. Krishmarajah et al. '592' discloses data packet processing layer (figure 12,data divider 32)), and a user data tunnelling layer operable to provide a virtual channel for communicating the processed data packets via an internet protocol communications layer (figure 12, IP layer processor 36), wherein the data packet processing layer is operable to parse the payload data in each data packet to determine a number of the plurality of different data types (figure 12) to form a transport frame for each data packet by combining the payload data for each data packet with the sub-flow indicator ([0054] subflows), the transport frame being used to communicate each processed data packet between the gateway support node (figure 7, GGSN) and a radio network controller (figure 7, SGSN) via a 16 service support node (figure 7, SGSN) using the user data tunnelling layer

The prior art however fails to disclose <u>parsing the payload data in each data packet to determine a number of data symbols in each of the different data types</u>, generating a radio access bearer sub-flow indicator providing an indication of the number of different types of data in the payload and the number of symbols in each different data type;

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHUONG T. HO whose telephone number is (571)272-3133. The examiner can normally be reached on 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EDAN ORGAD can be reached on (571) 272-7884. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

09/26/08

/Edan Orgad/

Supervisory Patent Examiner, Art Unit 2419